

10/528847

JC06 Rec'd PCT/PTO 23 MAR 2005

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ccg Pro	gat Asp	gaa Glu	ggc Gly 1840	ttg Leu	act Thr	ggt Gly	ctt Leu	ttc Phe 1845	gac Asp	aag Lys	gga Gly	tct Ser	ttc Phe 1850	atg Met	8368
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cga Arg	ctg Leu	gga Gly	ggc Gly 1870	att Ile	cct Pro	atg Met	ggt Gly	gtt Val 1875	att Ile	gct Ala	gtc Val	gaa Glu	acc Thr 1880	agg Arg	8458
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Leu Glu Asn Ala Pro Pro Ser Ser Val Thr Asp Phe Val Arg Ser Gln
20 25 30

gat ggt cac acg gtc atc acc aaa gtc ctc att gcc aac aac gga atc 144
Asp Gly His Thr Val Ile Thr Lys Val Leu Ile Ala Asn Asn Gly Ile
35 40 45

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Ala Ala Val Lys Glu Ile Arg Ser Val Arg Lys Trp Ala Tyr Glu Thr
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gtt Val	agt Ser	gcc Ala	ggt Gly 340	acc Thr	gtc Val	gaa Glu	tac Tyr	ctc Leu 345	tac Tyr	tct Ser	cac His	gcc Ala	gac Asp 350	gac Asp	tca Ser	1056
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gat Asp	tct Ser	caa Gln	ttc Phe	ggt Gly 485	cac His	gtg Val	ttt Phe	gct Ala	tat Tyr 490	ggc Gly	tcc Ser	gac Asp	cga Arg	acg Thr 495	act Thr	1488
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gac Asp	ttc Phe	cga Arg 515	acc Thr	act Thr	gtc Val	gag Glu	tat Tyr 520	ctt Leu	atc Ile	act Thr	ctt Leu	ctt Leu 525	gag Glu	acg Thr	agc Ser	1584
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ctc Leu	aag Lys	aca Thr 595	gtg Val	ttc Phe	act Thr	ctt Leu	gat Asp 600	ttc Phe	atc Ile	tat Tyr	gag Glu	ggt Gly 605	gtt Val	cgg Arg	tac Tyr	1824
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aca Thr	atc Ile	ctc Leu	cga Arg	tca Ser 805	ttc Phe	tct Ser	gaa Glu	aac Asn	ctt Leu 810	tat Tyr	gat Asp	cct Pro	gat Asp	ctt Leu 815	gct Ala	2448

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gcc gat ctt gag gag agc att cga gag gtc atc agc gaa gct cag tcg Ala Asp Leu Glu Glu Ser Ile Arg Glu Val Ile Ser Glu Ala Gln Ser 835 840 845	2544
aag cct cac gcc gag ttc cct gga tca aag atc ctc aaa gtc gtc gag Lys Pro His Ala Glu Phe Pro Gly Ser Lys Ile Leu Lys Val Val Glu 850 855 860	2592
cgg tac atc gat aat ttg cga cct cag gag agg gct atg gtc cga act Arg Tyr Ile Asp Asn Leu Arg Pro Gln Glu Arg Ala Met Val Arg Thr 865 870 875 880	2640
cag atc gaa ccc atc gtt ggt att gct gag aag aac gtt ggc ggt cct Gln Ile Glu Pro Ile Val Gly Ile Ala Glu Lys Asn Val Gly Gly Pro 885 890 895	2688
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gcc gtt gag gcc gtt ttt gct act ggt agt gaa gag gcc att gtt ctc Ala Val Glu Ala Val Phe Ala Thr Gly Ser Glu Glu Ala Ile Val Leu 915 920 925	2784
caa ctt cga gat gaa aac cga gaa tct ttg aac gac gtc ctt ggt ctc Gln Leu Arg Asp Glu Asn Arg Glu Ser Leu Asn Asp Val Leu Gly Leu 930 935 940	2832
gtc ctg gct cac tcg cgt ctc agc gct cga tcc aag ctt gtt ctc tcc Val Leu Ala His Ser Arg Leu Ser Ala Arg Ser Lys Leu Val Leu Ser 945 950 955 960	2880
gtc ttt gat ctg atc aag tct atg cag ctc ctc aac aac act gag ggt Val Phe Asp Leu Ile Lys Ser Met Gln Leu Leu Asn Asn Thr Glu Gly 965 970 975	2928
tct ttc ctt cat aag act atg aaa gcg ctt gcc gac atg ccc acc aag Ser Phe Leu His Lys Thr Met Lys Ala Leu Ala Asp Met Pro Thr Lys 980 985 990	2976
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tct tgc tct ctt ccc tct tac gag gag agg ttg ttc cag atg gaa Ser Cys Ser Leu Pro Ser Tyr Glu Glu Arg Leu Phe Gln Met Glu 1010 1015 1020	3069
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acc Thr	gtc Val	tac Tyr	3249
ggt Val	ctt Leu 1085	cga Arg	gct Ala
tac Tyr	cga Arg	gag Glu 1090	tac Tyr
agt Ser	att Ile	ctt Leu	gat Asp 1095
atg Met	caa Gln	cat His	3294
gag Glu	caa Gln 1100	ggt Gly	cag Gln
gat Asp	ggc Gly	gct Ala 1105	gct Ala
gga Gly	gtc Val	atc Ile	act Thr 1110
tgg Trp	cga Arg	ttc Phe	3339
aag Lys	ctc Leu 1115	aac Asn	cag Gln
ccc Pro	atc Ile	gct Ala 1120	gag Glu
tct Ser	tct Ser	act Thr	ccc Pro 1125
cga Arg	ggt Val	gac Asp	3384
tcg Ser	aat Asn 1130	cga Arg 1135	gtc Val
ggt Gly	tcg Ser	ctt Leu	tct Ser 1140
gat Asp	ttg Leu	acc Thr	3429
tac Tyr	aag Lys 1145	atc Ile	aag Lys
cag Gln	agt Ser	cag Gln 1150	acc Thr
gag Glu	ccc Pro	ctc Leu	cga Arg 1155
gct Ala	ggt Gly	gtc Val	3474
atg Met	acg Thr 1160	agc Ser	ttc Phe
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gga Gly	ctc Leu	ttg Leu	3519
aat Asn	ggt Val 1175	ctg Leu	tct Ser
tct Ser	ttc Phe	ttc Phe	cct Pro 1180
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cag Gln	gac Asp	agt Ser 1195	gcc Ala
atg Met	ccc Pro	aac Asn	ggt Val 1200
ctc Leu	aac Asn	att Ile	3609
gct Ala	atc Ile 1205	cgg Arg	gct Ala
gtc Ala	ttc Phe	gag Glu	gag Glu 1210
aag Lys	gac Asp	gac Asp	atg Met
tct Ser	gat Asp	ctt Leu	gat Asp
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ggt Val	gag Glu	tcg Ser 1225	ctg Leu
gta Val	atg Met	cag Gln	atg Met 1230
tct Ser	gcc Ala	gag Glu	3699
atc Ile	cag Gln 1235	aag Lys	aag Lys
gga Gly	att Ile	cga Arg 1240	cga Arg
gtt Val	ggt Val	tgc Cys	cga Arg
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ccc Pro	tcc Ser	tac Tyr 1255	ttc Phe
acc Thr	ttc Phe	aga Arg	caa Gln 1260
gag Glu	ggt Gly	gcc Ala	3789
cag Gln	ggc Gly 1265	ccc Pro	tgg Trp
aga Arg	gag Glu	gag Glu 1270	gag Glu
aag Lys	att Ile	cga Arg	aac Asn 1275
atc Ile	gag Glu	cct Pro	3834
gct Ala	cta Leu 1280	gcc Ala	agt Ser
cag Gln	ctt Leu	gag Glu 1285	ctc Leu
aac Asn	cga Arg	ctc Leu	tcg Ser 1290
aat Asn	ttc Phe	aag Lys	3879
gtc acc	cct atc	ttc gta	gac
aac aga	cag atc	cac	atc
3924			

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Ala	Leu	Val	Arg	Pro	Gly	Arg	Val	Gln	Gly	Ser	Met	Lys	Ala	Ala	
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Glu	Tyr	Leu	Ile	Ser	Glu	Cys	Asp	Arg	Leu	Leu	Thr	Asp	Ile	Leu	
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gac	gcc	ttg	gag	gtt	gtt	gga	gcc	gag	act	cga	aac	gcc	gat	tgc	4104
Asp	Ala	Leu	Glu	Val	Val	Gly	Ala	Glu	Thr	Arg	Asn	Ala	Asp	Cys	
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Asn	His	Val	Gly	Ile	Asn	Phe	Ile	Tyr	Asn	Val	Leu	Val	Asp	Phe	
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Asp	Asp	Val	Gln	Glu	Ala	Leu	Ala	Gly	Phe	Ile	Glu	Arg	His	Gly	
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Lys	Arg	Leu	Trp	Arg	Leu	Arg	Val	Thr	Ala	Ser	Glu	Ile	Arg	Met	
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Val	Leu	Glu	Asp	Asp	Glu	Gly	Asn	Val	Thr	Pro	Ile	Arg	Cys	Cys	
	1415					1420					1425				
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Ile	Glu	Asn	Val	Ser	Gly	Phe	Val	Val	Lys	Tyr	His	Ala	Tyr	Gln	
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Glu	Val	Glu	Thr	Glu	Lys	Gly	Thr	Thr	Ile	Leu	Lys	Ser	Ile	Gly	
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Asp	Leu	Gly	Pro	Leu	His	Leu	Gln	Pro	Val	Asn	His	Ala	Tyr	Gln	
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Gly	Thr	Thr	Tyr	Val	Tyr	Asp	Tyr	Pro	Asp	Leu	Phe	Val	Gln	Ser	
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Leu	Arg	Lys	Val	Trp	Ala	Glu	Ala	Ala	Ala	Lys	Ile	Pro	His	Leu	
	1505					1510					1515				
cgg	gtg	cct	agc	gag	cct	ctt	acc	gct	acc	gag	ttg	gtt	ctc	gat	4599
Arg	Val	Pro	Ser	Glu	Pro	Leu	Thr	Ala	Thr	Glu	Leu	Val	Leu	Asp	
	1520					1525					1530				

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tat Tyr	ccc Pro 1565	aag Lys	ggt Gly	cga Arg	cga Arg	gta Val 1570	ggt Val	gcc Ala	att Ile	gcc Ala	aac Asn 1575	gat Asp	atc Ile	acc Thr	4734
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atg Met	ggt Gly 1640	att Ile	aag Lys	tat Tyr	cta Leu	tac Tyr 1645	ttg Leu	acc Thr	cct Pro	gaa Glu	act Thr 1650	tta Leu	tcc Ser	act Thr	4959
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act Thr	gga Gly 1745	gct Ala	cag Gln	tct Ser	ctc Leu	aac Asn 1750	aag Lys	gtg Val	ctt Leu	gga Gly	cga Arg 1755	gag Glu	gtt Val	tac Tyr	5274
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gcc Ala	att Ile 1805	cct Pro	atc Ile	tgg Trp	cct Pro	tcc Ser 1810	gag Glu	gac Asp	cct Pro	tgg Trp	gac Asp 1815	cga Arg	act Thr	gtg Val	5454
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gct Ala	gat Asp	gaa Glu	acc Thr	gct Ala	cga Arg	gga Gly	gga Gly	att Ile	ctc Leu	gag Glu	ccg Pro	gaa Glu	ggt Gly	atc Ile	6039

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50          55          60

Phe Gly Asp Glu Arg Ala Ile Glu Phe Thr Val Met Ala Thr Pro Glu
65          70          75          80

Asp Leu Lys Val Asn Cys Asp Tyr Ile Arg Met Ala Asp Arg Val Val
85          90          95

Glu Val Pro Gly Gly Thr Asn Asn Asn Asn His Ser Asn Val Asp Leu
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Ile Val Asp Ile Ala Glu Arg Phe Asn Ile His Ala Val Trp Ala Gly
115         120         125

Trp Gly His Ala Ser Glu Asn Pro Arg Leu Pro Glu Ser Leu Ala Ala
130         135         140

Ser Lys Asn Lys Ile Val Phe Ile Gly Pro Pro Gly Ser Ala Met Arg
145         150         155         160

Ser Leu Gly Asp Lys Ile Ser Ser Thr Ile Val Ala Gln Ser Ala Gln
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Val Pro Cys Met Ala Trp Ser Gly Ser Gly Ile Thr Asp Thr Glu Leu
180         185         190

Ser Pro Gln Gly Phe Val Thr Val Pro Asp Gly Pro Tyr Gln Ala Ala
195         200         205

Cys Val Lys Thr Val Glu Asp Gly Leu Val Arg Ala Glu Lys Ile Gly
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Ala Ile Ser Leu Phe Gly Arg Asp Cys Ser Val Gln Arg Arg His Gln
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Lys Ile Ile Glu Glu Ala Pro Val Thr Ile Ala Arg Pro Glu Arg Phe
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Glu Glu Met Glu Lys Ala Ala Val Arg Leu Ala Lys Leu Val Gly Tyr
325 330 335

Val Ser Ala Gly Thr Val Glu Tyr Leu Tyr Ser His Ala Asp Asp Ser
340 345 350

Phe Phe Phe Leu Glu Leu Asn Pro Arg Leu Gln Val Glu His Pro Thr
355 360 365

Thr Glu Met Val Ser Gly Val Asn Leu Pro Ala Ala Gln Leu Gln Ile
370 375 380

Ala Met Gly Ile Pro Leu Ser Arg Ile Arg Asp Ile Arg Val Leu Tyr
385 390 395 400

Gly Leu Asp Pro His Thr Val Ser Glu Ile Asp Phe Asp Ser Ser Arg
405 410 415

Ala Glu Ser Val Gln Thr Gln Arg Lys Pro Arg Pro Lys Gly His Val
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Ile Ala Cys Arg Ile Thr Ser Glu Asn Pro Asp Glu Gly Phe Lys Pro
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Asp Ser Gln Phe Gly His Val Phe Ala Tyr Gly Ser Asp Arg Thr Thr
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Thr Asn Lys Leu Thr Ser Glu Arg Pro Asp Pro Ser Leu Ala Val Ile
545 550 555 560

Cys Gly Ala Ile Val Lys Ala His Val Ala Ser Glu Asn Cys Trp Ala
565 570 575

Glu Tyr Arg Arg Val Leu Asp Lys Gly Gln Val Pro Ser Lys Asp Thr
580 585 590

Leu Lys Thr Val Phe Thr Leu Asp Phe Ile Tyr Glu Gly Val Arg Tyr
595 600 605

Asn Phe Thr Ala Ala Arg Ala Ser Leu Asn Thr Tyr Arg Leu Tyr Leu
610 615 620

Asn Gly Gly Lys Thr Val Val Ser Ile Arg Pro Leu Ala Asp Gly Gly
625 630 635 640

Met Leu Val Leu Leu Asp Gly Arg Ser His Thr Leu Tyr Trp Arg Glu
645 650 655

Glu Val Gly Thr Leu Arg Ile Gln Val Asp Ala Lys Thr Cys Leu Ile
660 665 670

Glu Gln Glu Asn Asp Pro Thr Gln Leu Arg Ser Pro Ser Pro Gly Lys
675 680 685

Ile Ile Arg Phe Leu Val Glu Ser Gly Asp His Ile Ser Ser Gly Asp
690 695 700

Ile Tyr Ala Glu Val Glu Val Met Lys Met Ile Leu Pro Leu Ile Ala
705 710 715 720

Gln Glu Ser Gly His Val Gln Phe Val Lys Gln Ala Gly Val Thr Val
725 730 735

Asp Pro Gly Ala Ile Ile Gly Ile Leu Ser Leu Asp Asp Pro Thr Arg
740 745 750

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Val Lys Lys Ala Lys Pro Phe Glu Gly Leu Leu Pro Val Thr Gly Leu
755 760 765

Pro Asn Leu Pro Gly Asn Arg Pro His Gln Arg Leu Gln Phe Gln Leu
770 775 780

Glu Ser Ile Tyr Ser Val Leu Asp Gly Tyr Glu Ser Asp Ser Thr Ala
785 790 795 800

Thr Ile Leu Arg Ser Phe Ser Glu Asn Leu Tyr Asp Pro Asp Leu Ala
805 810 815

Phe Gly Glu Ala Leu Ser Ile Ile Ser Val Leu Ser Gly Arg Met Pro
820 825 830

Ala Asp Leu Glu Glu Ser Ile Arg Glu Val Ile Ser Glu Ala Gln Ser
835 840 845

Lys Pro His Ala Glu Phe Pro Gly Ser Lys Ile Leu Lys Val Val Glu
850 855 860

Arg Tyr Ile Asp Asn Leu Arg Pro Gln Glu Arg Ala Met Val Arg Thr
865 870 875 880

Gln Ile Glu Pro Ile Val Gly Ile Ala Glu Lys Asn Val Gly Gly Pro
885 890 895

Lys Gly Tyr Ala Ser Tyr Val Leu Ala Thr Ile Leu Gln Lys Phe Leu
900 905 910

Ala Val Glu Ala Val Phe Ala Thr Gly Ser Glu Glu Ala Ile Val Leu
915 920 925

Gln Leu Arg Asp Glu Asn Arg Glu Ser Leu Asn Asp Val Leu Gly Leu
930 935 940

Val Leu Ala His Ser Arg Leu Ser Ala Arg Ser Lys Leu Val Leu Ser
945 950 955 960

Val Phe Asp Leu Ile Lys Ser Met Gln Leu Leu Asn Asn Thr Glu Gly
965 970 975

Ser Phe Leu His Lys Thr Met Lys Ala Leu Ala Asp Met Pro Thr Lys
980 985 990

Ala Pro Leu Ala Ser Lys Val Ser Leu Lys Ala Arg Glu Ile Leu Ile
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995

1000

1005

Ser	Cys	Ser	Leu	Pro	Ser	Tyr	Glu	Glu	Arg	Leu	Phe	Gln	Met	Glu
	1010					1015					1020			
Lys	Ile	Leu	Asn	Ser	Ser	Val	Thr	Thr	Ser	Tyr	Tyr	Gly	Glu	Thr
	1025					1030					1035			
Gly	Gly	Gly	His	Arg	Asn	Pro	Ser	Val	Asp	Val	Leu	Thr	Glu	Ile
	1040					1045					1050			
Ser	Asn	Ser	Arg	Phe	Thr	Val	Tyr	Asp	Val	Leu	Ser	Ser	Phe	Phe
	1055					1060					1065			
Lys	His	Asp	Asp	Pro	Trp	Ile	Val	Leu	Ala	Ser	Leu	Thr	Val	Tyr
	1070					1075					1080			
Val	Leu	Arg	Ala	Tyr	Arg	Glu	Tyr	Ser	Ile	Leu	Asp	Met	Gln	His
	1085					1090					1095			
Glu	Gln	Gly	Gln	Asp	Gly	Ala	Ala	Gly	Val	Ile	Thr	Trp	Arg	Phe
	1100					1105					1110			
Lys	Leu	Asn	Gln	Pro	Ile	Ala	Glu	Ser	Ser	Thr	Pro	Arg	Val	Asp
	1115					1120					1125			
Ser	Asn	Arg	Asp	Val	Tyr	Arg	Val	Gly	Ser	Leu	Ser	Asp	Leu	Thr
	1130					1135					1140			
Tyr	Lys	Ile	Lys	Gln	Ser	Gln	Thr	Glu	Pro	Leu	Arg	Ala	Gly	Val
	1145					1150					1155			
Met	Thr	Ser	Phe	Asn	Asn	Leu	Lys	Glu	Val	Gln	Asp	Gly	Leu	Leu
	1160					1165					1170			
Asn	Val	Leu	Ser	Phe	Phe	Pro	Ala	Tyr	His	His	Gln	Asp	Phe	Thr
	1175					1180					1185			
Gln	Arg	His	Gly	Gln	Asp	Ser	Ala	Met	Pro	Asn	Val	Leu	Asn	Ile
	1190					1195					1200			
Ala	Ile	Arg	Ala	Phe	Glu	Glu	Lys	Asp	Asp	Met	Ser	Asp	Leu	Asp
	1205					1210					1215			
Trp	Ala	Lys	Ser	Val	Glu	Ser	Leu	Val	Met	Gln	Met	Ser	Ala	Glu
	1220					1225					1230			

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Ile Gln Lys Lys Gly Ile Arg Arg Val Thr Phe Leu Val Cys Arg
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 Lys Gly Val Tyr Pro Ser Tyr Phe Thr Phe Arg Gln Glu Gly Ala
 1250 1255 1260
 Gln Gly Pro Trp Arg Glu Glu Glu Lys Ile Arg Asn Ile Glu Pro
 1265 1270 1275
 Ala Leu Ala Ser Gln Leu Glu Leu Asn Arg Leu Ser Asn Phe Lys
 1280 1285 1290
 Val Thr Pro Ile Phe Val Asp Asn Arg Gln Ile His Ile Tyr Lys
 1295 1300 1305
 Gly Val Gly Lys Glu Asn Ser Ser Asp Val Arg Phe Phe Ile Arg
 1310 1315 1320
 Ala Leu Val Arg Pro Gly Arg Val Gln Gly Ser Met Lys Ala Ala
 1325 1330 1335
 Glu Tyr Leu Ile Ser Glu Cys Asp Arg Leu Leu Thr Asp Ile Leu
 1340 1345 1350
 Asp Ala Leu Glu Val Val Gly Ala Glu Thr Arg Asn Ala Asp Cys
 1355 1360 1365
 Asn His Val Gly Ile Asn Phe Ile Tyr Asn Val Leu Val Asp Phe
 1370 1375 1380
 Asp Asp Val Gln Glu Ala Leu Ala Gly Phe Ile Glu Arg His Gly
 1385 1390 1395
 Lys Arg Leu Trp Arg Leu Arg Val Thr Ala Ser Glu Ile Arg Met
 1400 1405 1410
 Val Leu Glu Asp Asp Glu Gly Asn Val Thr Pro Ile Arg Cys Cys
 1415 1420 1425
 Ile Glu Asn Val Ser Gly Phe Val Val Lys Tyr His Ala Tyr Gln
 1430 1435 1440
 Glu Val Glu Thr Glu Lys Gly Thr Thr Ile Leu Lys Ser Ile Gly
 1445 1450 1455
 Asp Leu Gly Pro Leu His Leu Gln Pro Val Asn His Ala Tyr Gln
 1460 1465 1470

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Thr Lys Asn Ser Leu Gln Pro Arg Arg Tyr Gln Ala His Leu Val
 1475 1480 1485
 Gly Thr Thr Tyr Val Tyr Asp Tyr Pro Asp Leu Phe Val Gln Ser
 1490 1495 1500
 Leu Arg Lys Val Trp Ala Glu Ala Ala Ala Lys Ile Pro His Leu
 1505 1510 1515
 Arg Val Pro Ser Glu Pro Leu Thr Ala Thr Glu Leu Val Leu Asp
 1520 1525 1530
 Glu Asn Asn Glu Leu Gln Glu Val Glu Arg Pro Pro Gly Ser Asn
 1535 1540 1545
 Ser Cys Gly Met Val Ala Trp Ile Phe Thr Met Leu Thr Pro Glu
 1550 1555 1560
 Tyr Pro Lys Gly Arg Arg Val Val Ala Ile Ala Asn Asp Ile Thr
 1565 1570 1575
 Phe Lys Ile Gly Ser Phe Gly Pro Lys Glu Asp Asp Tyr Phe Phe
 1580 1585 1590
 Lys Ala Thr Glu Ile Ala Lys Lys Leu Gly Leu Pro Arg Ile Tyr
 1595 1600 1605
 Leu Ser Ala Asn Ser Gly Ala Arg Leu Gly Ile Ala Glu Glu Leu
 1610 1615 1620
 Leu His Ile Phe Lys Ala Ala Phe Val Asp Pro Ala Lys Pro Ser
 1625 1630 1635
 Met Gly Ile Lys Tyr Leu Tyr Leu Thr Pro Glu Thr Leu Ser Thr
 1640 1645 1650
 Leu Ala Lys Lys Gly Ser Ser Val Thr Thr Glu Glu Ile Glu Asp
 1655 1660 1665
 Asp Gly Glu Arg Arg His Lys Ile Thr Ala Ile Ile Gly Leu Ala
 1670 1675 1680
 Glu Gly Leu Gly Val Glu Ser Leu Arg Gly Ser Gly Leu Ile Ala
 1685 1690 1695
 Gly Ala Thr Thr Arg Ala Tyr Glu Glu Gly Ile Phe Thr Ile Ser
 1700 1705 1710

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Leu Val Thr Ala Arg Ser Val Gly Ile Gly Ala Tyr Leu Val Arg
1715 1720 1725

Leu Gly Gln Arg Ala Ile Gln Val Glu Gly Asn Pro Met Ile Leu
1730 1735 1740

Thr Gly Ala Gln Ser Leu Asn Lys Val Leu Gly Arg Glu Val Tyr
1745 1750 1755

Thr Ser Asn Leu Gln Leu Gly Gly Thr Gln Ile Met Ala Arg Asn
1760 1765 1770

Gly Thr Thr His Leu Val Ala Glu Ser Asp Leu Asp Gly Ala Leu
1775 1780 1785

Lys Val Ile Gln Trp Leu Ser Tyr Val Pro Glu Arg Lys Gly Lys
1790 1795 1800

Ala Ile Pro Ile Trp Pro Ser Glu Asp Pro Trp Asp Arg Thr Val
1805 1810 1815

Thr Tyr Glu Pro Pro Arg Gly Pro Tyr Asp Pro Arg Trp Leu Leu
1820 1825 1830

Glu Gly Lys Pro Asp Glu Gly Leu Thr Gly Leu Phe Asp Lys Gly
1835 1840 1845

Ser Phe Met Glu Thr Leu Gly Asp Trp Ala Lys Thr Ile Val Thr
1850 1855 1860

Gly Arg Ala Arg Leu Gly Gly Ile Pro Met Gly Val Ile Ala Val
1865 1870 1875

Glu Thr Arg Thr Thr Glu Lys Ile Ile Ala Ala Asp Pro Ala Asn
1880 1885 1890

Pro Ala Ala Phe Glu Gln Lys Ile Met Glu Ala Gly Gln Val Trp
1895 1900 1905

Asn Pro Asn Ala Ala Tyr Lys Thr Ala Gln Ser Ile Phe Asp Ile
1910 1915 1920

Asn Lys Glu Gly Leu Pro Leu Met Ile Leu Ala Asn Ile Arg Gly
1925 1930 1935

Phe Ser Gly Gly Gln Gly Asp Met Phe Asp Ala Ile Leu Lys Gln

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1940	1945	1950
Gly Ser 1955	Lys Ile Val Asp Gly 1960	Leu Ser Asn Phe Lys 1965
Phe Val 1970	Tyr Val Val Pro Asn 1975	Gly Glu Leu Arg Gly 1980
Val Val 1985	Leu Asp Pro Thr Ile 1990	Asn Leu Ala Lys Met 1995
Ala Asp 2000	Glu Thr Ala Arg Gly 2005	Gly Ile Leu Glu Pro 2010
Val Glu 2015	Ile Lys Phe Arg Arg 2020	Asp Lys Val Ile Ala 2025
Arg Leu 2030	Asp Glu Thr Tyr Ala 2035	Ser Leu Lys Ala Ala 2040
Ser Thr 2045	Lys Ser Ala Glu Glu 2050	Arg Ala Lys Ser Ala 2055
Lys Ala 2060	Arg Glu Thr Leu Leu 2065	Gln Pro Thr Tyr Leu 2070
His Leu 2075	Tyr Ala Asp Leu His 2080	Asp Arg Val Gly Arg 2085
Lys Gly 2090	Cys Ala Lys Arg Ala 2095	Val Trp Ala Glu Ala 2100
Phe Tyr 2105	Trp Arg Leu Arg Arg 2110	Arg Leu Asn Asp Glu 2115
Ser Lys 2120	Phe Ala Ala Ala Asn 2125	Pro Asp Leu Thr Leu 2130
Gln Asn 2135	Ile Leu Asp Ser Val 2140	Val Gln Thr Asp Leu 2145
Arg Ala 2150	Thr Ala Glu Trp Ile 2155	Glu Gln Ser Ala Glu 2160
Ala Ala 2165	Val Ala Glu Val Arg 2170	Ser Thr Tyr Val Ser 2175

0185663SeqList.txt

Ile Ser Phe Ala Glu Thr Glu Arg Ala Gly Ala Leu Gln Gly Leu
2180 2185 2190

Val Ala Val Leu Ser Thr Leu Asn Ala Glu Asp Lys Lys Ala Leu
2195 2200 2205

Val Ser Ser Leu Gly Leu
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0185663SeqList.txt

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26

0185663SeqList.txt

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19